**COMPLEX NUMBERS IN POLAR FORM**

Rectangular form: Polar form:

distance of point

from origin

argument of , the angle the

line makes with the real axis

From Trigonometry: To convert to polar form:



**Example 1:** Write in polar form.

Sketch on Argand diagram to check the angle it makes with the real axis:

(2nd quadrant)

So

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On GRAPHICS CALCULATOR:

* To find : In RUN mode, press OPTN, press F3 for CPLX, press F2 for Abs, then type in the complex number. Your screen should read “Abs (”. Press EXE.
* To find : In RUN mode, press OPTN, press F3 for CPLX, press F3 for Arg, then type in the complex number. Your screen should read “Arg ”. Press EXE.

Example 2: Write in rectangular form.

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